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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/044,014	01/11/2002	Kuei-Hung Lee	67,200-620 7480		
7	590 01/06/2004		EXAMINER		
TUNG & ASSOCIATES			BRAHAN, THOMAS J		
Suite 120 838 W. Long L	ake Road	·	ART UNIT	PAPER NUMBER	
	lls, MI 48302	·	3652		
			DATE MAILED: 01/06/2004	4 .	

Please find below and/or attached an Office communication concerning this application or proceeding.

				SL				
	Application No	<b>.</b>	Applicant(s)					
	10/044,014		LEE, KUEI-HUNG					
Office Action Summary	Examiner		Art Unit					
	Thomas J. Brai	nan	3652					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a re  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statu  - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	l. I.136(a). In no event, ho eply within the statutory n d will apply and will expir ute, cause the applicatior	wever, may a reply be time ninimum of thirty (30) days te SIX (6) MONTHS from the to become ABANDONED	ely filed will be considered timely. ne mailing date of this com (35 U.S.C. § 133).	munication.				
1) Responsive to communication(s) filed on <u>07</u>	October 2003.							
2a)⊠ This action is <b>FINAL</b> . 2b)□ Thi	This action is FINAL. 2b) This action is non-final.							
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4) Claim(s) 1 and 4-18 is/are pending in the app	plication.							
4a) Of the above claim(s) is/are withdr	rawn from conside	eration.						
5) Claim(s) is/are allowed.	Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1 and 4-18</u> is/are rejected.	☑ Claim(s) <u>1 and 4-18</u> is/are rejected.							
7) Claim(s) is/are objected to.	☐ Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and	or election requir	ement.						
Application Papers								
9) The specification is objected to by the Examir	ner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. §§ 119 and 120								
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document of:  2. Certified copies of the priority document of:  3. Copies of the certified copies of the priority document of the	nts have been recents have been received to the certified stick priority under	ceived. ceived in Applicatio have been received (2(a)). copies not received 35 U.S.C. § 119(e)	on No d in this National S d. ) (to a provisional a	application)				
	a) ☐ The translation of the foreign language provisional application has been received.							
14) Acknowledgment is made of a claim for domes reference was included in the first sentence of								
Attachment(s)								
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5)	Interview Summary ( Notice of Informal Pa Other:						

1. The following is a quotation of 35 U.S.C. § 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made

Subject matter developed by another person, which qualifies as prior art only under subsection (f) or (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

- 2. Claims 1 and 4-18 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Shamlou et al. Shamlou et al shows the basic claimed end effector with a tapered end (114). The dimensions of the blade and the cassette arrangement appear to approximate those claimed (an angle range including 10 degrees), as to have the slight differences considered as design expedients which would have been within the level of routine skill in the art at the time the invention was made. The large central portion (101) can be considered as a single finger, as recited in claim 4. The two small portions adjacent tips (114) can be considered as two fingers, as recited in claims 5 and 17.
- 3. Claims 1 and 4-18 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Shamlou et al in view of Chen et al. Shamlou et al shows the basic claimed end effector with a tapered end (114). The dimensions of the blade and the cassette arrangement appear to approximate those claimed (an angle range including 10 degrees). Chen et al shows another wafer handling blade arrangement and teaches that as the dimensions of the wafer are increased or decreased, the dimensions of the wafer support blade and its tapered portion can be varied, see column 3, lines 11-14. It would have been obvious to one of ordinary skill in the art to modify the dimensions and the angle of the taper of the wafer handling blade of Shamlou et al as the dimensions of the intended wafer change, as taught by Chen et al. The large central portion (101) can be considered as a single finger, as recited in claim 4. The two small portions adjacent tips (114) can be considered as two fingers, as recited in claims 5 and 17.

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4. Applicant agues in the amendment filed October 7, 2003, that the Shamlou et al reference has a leading edge (122)that is tapered. However the leading edge (114) is used in the rejection. This edge has an angle range beginning at 10 degrees as to be only 2 degrees off from the applicant's claimed range. It does not mention a thickness for the tapered portion, but it does state that its length is 2.5 mm. As its thickness is shown less than its length, the thickness would also be approximate to the 1.8-1.95 mm recited in the claims. The dimensions of the tapered portions of Shamlou et al approximate those recited in the claims as to have the small differences be considered as obvious design expedients. As applicant argues that the references themselves do not mention that the determining of the essential dimensions of the wafer blade was a design consideration or expedient, a rejection which includes the Chen et al reference, with such a teaching, has been included above. Applicant's amendment necessitated the new grounds of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

5. An inquiry concerning this action should be directed to Examiner Thomas J. Brahan at telephone number (703) 308-2568 on Mondays through Fridays from 9:30-7:00 EST. The examiner's supervisor, Ms. Eileen Lillis, can be reached at (703) 308-3248. The new fax number for all patent applications is (703) 872-9306.

THOMAS J. BRAHAN PRIMARY EXAMINER